

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1                   **Claims 1-15       (Cancelled)**

1                   **Claim 16 (Currently amended):**       An appliance  
2       maintenance apparatus ~~as set forth in claim 1 or 9, which~~  
3       ~~further comprises~~ for maintaining a plurality of appliances  
4       each including a plurality of light indicators respectively  
5       emitting lights showing the operation states of each of  
6       said appliances, comprising:

7                         light detecting means for detecting said lights  
8       emitted from said light indicators,

9                         a remote diagnosis control unit for remotely  
10       diagnosing said one or more appliances, a communication  
11       unit for communicating with said remote diagnosis control  
12       unit, and

13                        a communication cable operatively connected to  
14       said remote diagnosis control unit and said communication  
15       unit to ensure communication between said remote diagnosis  
16       control unit and said communication unit.

1                   **Claims 17-18       (Cancelled)**

1           **Claim 19 (Currently amended):**   An appliance remote  
2   maintenance system ~~as set forth in claim 17~~ for maintaining  
3   a plurality of appliances from a remote location, each of  
4   said appliances including a plurality of light indicators  
5   respectively emitting lights showing the operation states  
6   of each of said appliances, comprising:

7               an appliance maintenance apparatus including  
8   light detecting means for detecting said lights emitted  
9   from said light indicators, said lights collectively form  
10   light information, and information transmitting means for  
11   transmitting said light information detected by said light  
12   detecting means through a public network, and

13              a remote diagnosis control apparatus including  
14   information receiving means for receiving said information  
15   transmitted from said information transmitting means  
16   through said public network to ensure the remote diagnosis  
17   controls of said appliances;

18              ~~in which~~ wherein said appliances have a common  
19   reset switch for resetting the operations of said  
20   appliances, and

21              ~~in which~~ said remote diagnosis control apparatus  
22   further comprises judging means for judging whether to  
23   operate said reset switch after diagnosing said operation  
24   states of said appliances on the basis of said light  
25   information detected by said light detecting means and  
26   instruction transmitting means for transmitting through

27       said public network to said appliance maintenance apparatus  
28       an instruction to operate said reset switch when said  
29       judging means judges to operate said reset switch,  
30               said appliance maintenance apparatus further  
31       comprises instruction receiving means for receiving said  
32       instruction transmitted from said instruction transmitting  
33       means through said public network and reset switch  
34       operating means for operating said reset switch in  
35       compliance with said instruction transmitted from said  
36       instruction transmitting means and received by said  
37       instruction receiving means.

1               **Claim 20 (Currently amended):** An appliance remote  
2       maintenance system as set forth in claim ~~18~~ or 19, in which  
3       each of said appliances includes a base plate having one  
4       side surface on which said light indicators are provided,  
5       and which further comprises:

6               a housing formed with an opening and  
7       accommodating a plurality of said base plates, said light  
8       indicators on said one side surface of the base plates  
9       being aligned with one another on said opening of said  
10       housing, and

11               a front cover plate having an inner surface and  
12       positioned to cover said opening of said housing with said  
13       inner surface opposing said opening of said housing, said  
14       inner surface having a plurality of said light receiving

15 elements provided thereon in face-to-face and spaced  
16 relationship with said light indicators.

1           **Claim 21 (Original):** An appliance remote maintenance  
2 system as set forth in claim 20, in which said reset switch  
3 is provided on said one side surface of said base plate,  
4 and said reset switch operating means is provided on said  
5 inner surface of said front cover plate in face-to-face and  
6 spaced relationship with said reset switch.

1           **Claim 22 (Currently amended):** An appliance remote  
2 maintenance system ~~a set forth in 17,~~ for maintaining a  
3 plurality of appliances from a remote location, each of  
4 said appliances including a plurality of light indicators  
5 respectively emitting lights showing the operation states  
6 of each of said appliances, comprising:

7                   an appliance maintenance apparatus including  
8 light detecting means for detecting said lights emitted  
9 from said light indicators, said lights collectively form  
10 light information, and information transmitting means for  
11 transmitting said light information detected by said light  
12 detecting means through a public network, and

13                   a remote diagnosis control apparatus including  
14 information receiving means for receiving said information  
15 transmitted from said information transmitting means

16     through said public network to ensure the remote diagnosis  
17     controls of said appliances;  
18             ~~in which~~ wherein each of said appliances has a  
19     reset switch for resetting the operation of said appliance,  
20     and in which  
21             said remote diagnosis control apparatus further  
22     comprises judging means for judging whether to operate said  
23     reset switch after diagnosing said operation states of said  
24     appliance on the basis of said light information detected  
25     by said light detecting means, and instruction transmitting  
26     means for transmitting through said public network to said  
27     appliance maintenance apparatus an instruction to operate  
28     said reset switch when said judging means judges to operate  
29     said reset switch,  
30             said appliance maintenance apparatus further  
31     comprises instruction receiving means for receiving said  
32     instruction transmitted from said instruction transmitting  
33     means through said public network, and reset switch  
34     operating means for operating said reset switch in  
35     compliance with said instruction transmitted from said  
36     instruction transmitting means and received by said  
37     instruction receiving means.

1             **Claim 23 (Original):** An appliance remote maintenance  
2     system as set forth in claim 22, in which each of said  
3     appliances includes a base plate having one side surface on

4        which said light indicators are provided, and which further  
5        comprises:

6                a housing formed with an opening and  
7        accommodating a plurality of said base plates, said light  
8        indicators on said one side surface of the base plates  
9        being aligned with one another on said opening of said  
10       housing, and

11               a front cover plate having an inner surface and  
12       positioned to cover said opening of said housing with said  
13       inner surface opposing said opening of said housing, said  
14       inner surface having a plurality of said light receiving  
15       elements provided thereon in face-to-face and spaced  
16       relationship with said light indicators.

1               **Claim 24 (Original):** An appliance remote maintenance  
2       system as set forth in claim 23, in which said reset  
3       switches are provided on said one side surface of said base  
4       plate, and said reset switch operating means is provided on  
5       said inner surface of said front cover plate in  
6       face-to-face and spaced relationship with said light  
7       indicators.

1               **Claims 25-26 (Cancelled)**

1           **Claim 27 (Currently amended):** An appliance remote  
2 maintenance system ~~as set forth in claim 25,~~ for  
3 maintaining an appliance from a remote location, said  
4 appliance including a plurality of light indicators  
5 emitting lights showing the operation states of said  
6 appliance, comprising:

7                   an appliance maintenance apparatus including  
8 light detecting means for detecting said lights emitted  
9 from said light indicators, said lights collectively form  
10 light information, and information transmitting means for  
11 transmitting said light information detected by said light  
12 detecting means through a public network, and

13                   a remote diagnosis control apparatus including  
14 information receiving means for receiving said information  
15 transmitted from said information transmitting means  
16 through said public network to ensure the remote diagnosis  
17 control of said appliance,

18                   ~~in which~~ wherein said appliance has a reset  
19 switch for resetting the operation of said appliance, and  
20 in which

21                   said remote diagnosis control apparatus further  
22 comprises judging means for judging whether to operate said  
23 reset switch after diagnosing said operation states of said  
24 appliance on the basis of said light information detected  
25 by said light detecting means, and instruction transmitting  
26 means for transmitting through said public network to said

27 appliance maintenance apparatus an instruction to operate  
28 said reset switch when said judging means judges to operate  
29 said reset switch,  
30 said appliance maintenance apparatus further  
31 comprises instruction receiving means for receiving said  
32 instruction transmitted from said instruction transmitting  
33 means through said public network, and reset switch  
34 operating means for operating said reset switch in  
35 compliance with said instruction transmitted from said  
36 instruction transmitting means and received by said  
37 instruction receiving means.

1 **Claim 28 (Currently amended):** An appliance remote  
2 maintenance system as set forth in claim ~~26~~ or 27, in which  
3 said appliance includes a base plate having one side  
4 surface on which said light indicators are provided, and  
5 which further comprises:  
6 a housing formed with an opening and  
7 accommodating said base plate, said light indicators on  
8 said one side surface of the base plate on said opening of  
9 said housing, and  
10 a front cover plate having an inner surface and  
11 positioned to cover said opening of said housing with said  
12 inner surface opposing said opening of said housing, said  
13 inner surface having a plurality of said light receiving



1 elements provided thereon in face-to-face and spaced  
2 relationship with said light indicators.

3 **Claim 29 (Original):** An appliance remote maintenance  
4 system as set forth in claim 28 in which said reset switch  
5 is provided on said one side surface of said base plate,  
6 and said reset switch operating means is provided on said  
7 inner surface of said front cover plate in face-to-face and  
8 spaced relationship with said reset switch.

1 **Claims 30-31 (Cancelled)**